

Appl. No. 10/758,375  
Atty. Docket No. 9161Q  
Amdt. dated August 22, 2006  
Reply to Office Action of August 2, 2006  
Customer No. 27752

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### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (Currently Amended) A disposable absorbent article comprising: ~~a durable, hydrophilic substantially liquid pervious topsheet, said substantially liquid pervious topsheet comprising:~~  
a durable, hydrophilic substantially liquid pervious topsheet;  
a backsheet; and  
an absorbent core disposed between the topsheet and the backsheet, wherein said substantially liquid pervious topsheet comprises:
  - (a) a topsheet substrate; and
  - (b) a hydrophilicity boosting composition coated on said topsheet substrate, said hydrophilicity boosting composition comprising a hydrophilicity boosting amount of nanoparticles, wherein said nanoparticles have a particle size of from about 1 to about 750 nanometers, and wherein said topsheet substrate has been treated with a high energy surface treatment.
2. (Previously Presented) The disposable absorbent article according to Claim 1 wherein said topsheet substrate is selected from the group consisting of porous polymeric films, nonwoven materials and combinations thereof.
3. (Previously Presented) The disposable absorbent article according to Claim 2 wherein said topsheet substrate is a nonwoven material and wherein said nonwoven material comprises fibers selected from the group consisting of polyolefins, polyesters, cellulose and combinations thereof.
4. (Previously Presented) The disposable absorbent article according to Claim 3 wherein said nonwoven material comprises fibers selected from the group consisting of polypropylene, polyethylene, polyethylene terephthalate, rayon and combinations thereof.

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5. (Previously Presented) The disposable absorbent article according to Claim 1 wherein said nanoparticles are inorganic nanoparticles.
6. (Previously Presented) The disposable absorbent article according to Claim 5 wherein said nanoparticles are selected from the group consisting of titanium dioxide, layered clay minerals, alumina oxide, silicates, and combinations thereof.
7. (Previously Presented) The disposable absorbent article according to Claim 6 wherein said nanoparticles are selected from the group consisting of titanium dioxide, Boehmite alumina, sodium magnesium lithium fluorosilicates and combinations thereof.
8. (Previously Presented) The disposable absorbent article according to Claim 1 wherein said hydrophilicity boosting composition further comprises a surfactant.
9. (Previously Presented) The disposable absorbent article according to Claim 8 wherein said surfactant is a nonionic surfactant.
10. (Previously Presented) The disposable absorbent article according to Claim 1 wherein said absorbent core comprises a storage layer and wherein said storage layer comprises material selected from the group consisting of absorbent gelling material, fluff, and mixtures thereof.
11. (Previously Presented) The disposable absorbent article according to Claim 1 wherein said backsheet is substantially liquid impervious.
12. (Previously Presented) The disposable absorbent article according to Claim 1 wherein said disposable absorbent article is selected from the group consisting of diapers, adult incontinence products, training pant, feminine hygiene pads, and panty liners.
13. (Cancelled)

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14. (Previously Presented) The disposable absorbent article according to Claim 1 wherein said high-energy surface treatment is selected from the group consisting of corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment and combinations thereof.
15. (Previously Presented) A process for making a disposable absorbent article comprising a durable, hydrophilic substantially liquid pervious topsheet, said process comprising the steps of:
  - selecting a topsheet substrate from the group consisting of porous polymeric films, nonwoven materials and combinations thereof;
  - treating said topsheet substrate with a high energy surface treatment; and
  - coating said topsheet substrate with a hydrophilicity boosting composition, said hydrophilicity boosting composition comprising a hydrophilicity boosting amount of nanoparticles, wherein said nanoparticles having a particle size of from about 1 to about 750 nanometers ,wherein the step of treating said topsheet substrate with a high energy surface treatment occurs prior to or concurrently with the coating of the topsheet substrate.
16. (Previously Presented) The process for making a disposable absorbent article according to Claim 15 further comprising the step of selecting said high energy surface treatment from the group consisting of corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment and combinations thereof.
17. (Previously Presented) The process for making a disposable absorbent article according to Claim 15 wherein hydrophilicity boosting composition further comprises a carrier and a surfactant.
18. (Previously Presented) The process for making a disposable absorbent article according to Claim 15 wherein said nanoparticles are inorganic nanoparticles.
19. (Cancelled)

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20. (Previously Presented) The process for making a disposable absorbent article according to Claim 15 further comprising the step of selecting said disposable absorbent article from the group consisting of diapers, adult incontinence products, training pant, feminine hygiene pads, and panty liners.